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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1	Web Page for STN Seminar Schedule - N. America
NEWS 2 JUL 02	LMEDLINE coverage updated
NEWS 3 JUL 02	SCISEARCH enhanced with complete author names
NEWS 4 JUL 02	CHEMCATS accession numbers revised
NEWS 5 JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 6 JUL 16	Caplus enhanced with French and German abstracts
NEWS 7 JUL 18	CA/CAplus patent coverage enhanced
NEWS 8 JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9 JUL 30	USGENE now available on STN
NEWS 10 AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 11 AUG 06	BEILSTEIN updated with new compounds
NEWS 12 AUG 06	FSTA enhanced with new thesaurus edition
NEWS 13 AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS 14 AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 15 AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 16 AUG 27	USPATOLD now available on STN
NEWS 17 AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 18 SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 19 SEP 13	FORIS renamed to SOFIS
NEWS 20 SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS 21 SEP 17	CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 22 SEP 17	Caplus coverage extended to include traditional medicine patents
NEWS EXPRESS 19 SEPTEMBER 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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Updated Search

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FILE 'HOME' ENTERED AT 20:40:44 ON 19 SEP 2007

=> file reg  
COST IN U.S. DOLLARS . SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 20:40:50 ON 19 SEP 2007  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1  
DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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<http://www.cas.org/support/stnqen/stndoc/properties.html>

=>  
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\hynm.str

L1 STRUCTURE UPLOADED

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=> s 11
SAMPLE SEARCH INITIATED 20:43:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        489 TO ITERATE
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100.0% PROCESSED      489 ITERATIONS      0 ANSWERS  
SEARCH TIME: 00:00:01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 8454 TO 11106  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 full  
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

10547840

FULL SEARCH INITIATED 20:43:15 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 9762 TO ITERATE

100.0% PROCESSED 9762 ITERATIONS  
SEARCH TIME: 00.00.01

1 ANSWERS

L3 1 SEA SSS FUL L1

=> file hcaplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
FULL ESTIMATED COST ENTRY SESSION  
173.45 173.66

FILE 'HCAPLUS' ENTERED AT 20:43:18 ON 19 SEP 2007  
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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13  
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13  
L4 1 L3

=> d 14, ibib abs hitstr, 1

L4 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:756694 HCAPLUS  
DOCUMENT NUMBER: 141:277496  
TITLE: Process for the preparation of substituted nicotinic acid esters  
INVENTOR(S): Jackson, David Anthony; Bowden, Martin Charles  
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.  
SOURCE: PCT Int. Appl., 98 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004078729	A1	20040916	WO 2004-EP2291	20040305

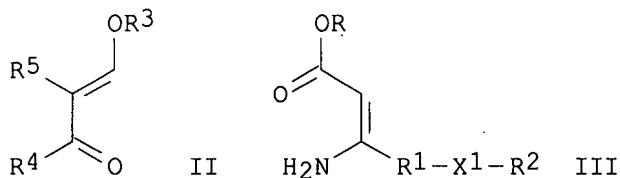
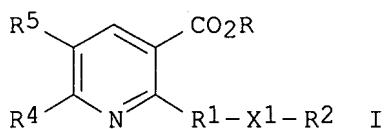
Updated Search

10547840

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CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI  
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,  
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,  
MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2004218241	A1	20040916	AU 2004-218241	20040305
EP 1601653	A1	20051207	EP 2004-717574	20040305
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
CN 1753872	A	20060329	CN 2004-80004908	20040305
BR 2004008160	A	20060411	BR 2004-8160	20040305
JP 2006519803	T	20060831	JP 2006-504564	20040305
US 2006199964	A1	20060907	US 2005-547840	20050906
IN 2005CN02175	A	20070831	IN 2005-CN2175	20050906
PRIORITY APPLN. INFO.:			CH 2003-373	A 20030307
			WO 2004-EP2291	W 20040305

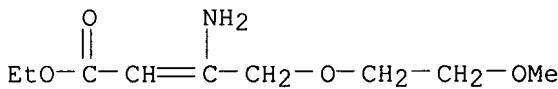
OTHER SOURCE(S): MARPAT 141:277496  
GI



AB A process for the preparation of substituted nicotinic acid esters I [R = alkyl; R1 = (un)substituted alkylene, alkenylene; R2 = H, (un)substituted alkyl, alkenyl, alkynyl, etc.; R4 = haloalkyl; R5 = hydroxy, cycloalkyloxy, (alkoxy)alkoxy, etc.; X = O, OCO, CO<sub>2</sub>, etc.], which process comprises reacting a compound of formula II [R<sub>3</sub> = (cyclo)alkyl, R<sub>4</sub> and R<sub>5</sub> are defined as above] with a compound of formula III (R, R<sub>1</sub>, R<sub>2</sub> and X are defined as above) in an inert solvent in the presence of a proton source, is disclosed. For example, reaction of Et 3-oxo-4-methoxyethoxybutanoate with 1-ethoxy-3-oxo-4,4-trifluorobutene gave 2-methoxyethoxymethyl-3-ethoxycarbonyl-6-trifluoromethylpyridine in 62% yield. Thus, the present invention provides a novel process producing the title compound at reasonable cost, in good yield and with good quality.

IT 757218-50-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of nicotinic acid esters)  
RN 757218-50-1 HCPLUS  
CN 2-Butenoic acid, 3-amino-4-(2-methoxyethoxy)-, ethyl ester (9CI) (CA INDEX NAME)

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REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold		SINCE FILE	TOTAL
COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		7.87	181.53
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		SINCE FILE	TOTAL
CA SUBSCRIBER PRICE		ENTRY	SESSION
		-0.78	-0.78

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FILE COVERS 1907-1966  
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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(FILE 'HOME' ENTERED AT 20:40:44 ON 19 SEP 2007)

FILE 'REGISTRY' ENTERED AT 20:40:50 ON 19 SEP 2007  
L1 STRUCTURE UPLOADED  
L2 O S L1  
L3 1 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 20:43:18 ON 19 SEP 2007  
L4 1 S L3

FILE 'CAOLD' ENTERED AT 20:43:42 ON 19 SEP 2007

=> s l3  
L5 0 L3

=> file hcaplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
SESSION ENTRY SESSION

Updated Search

10547840

FULL ESTIMATED COST	0.45	181.98
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.78

FILE 'HCAPLUS' ENTERED AT 20:43:50 ON 19 SEP 2007  
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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13  
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s jackson, d?/au and bowden, m?/au  
2880 JACKSON, D?/AU  
337 BOWDEN, M?/AU  
L6 4 JACKSON, D?/AU AND BOWDEN, M?/AU

=> d 16, ibib abs hitstr, 1-4

L6 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2005:1196196 HCAPLUS  
DOCUMENT NUMBER: 143:459878  
TITLE: Multi-step process for the production of cyclic diketones  
INVENTOR(S): Jackson, David Anthony; Edmunds, Andrew;  
Bowden, Martin Charles; Brockbank, Ben  
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited  
SOURCE: PCT Int. Appl., 34 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005105745	A1	20051110	WO 2005-EP4681	20050429
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,				

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NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,  
SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW  
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,  
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,  
MR, NE, SN, TD, TG  
AU 2005238195 A1 20051110 AU 2005-238195 20050429  
EP 1756059 A1 20070228 EP 2005-741812 20050429  
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR  
CN 1950339 A 20070418 CN 2005-80013706 20050429  
IN 2006CN04011 A 20070810 IN 2006-CN4011 20061101  
CH 2004-765 A 20040430  
WO 2005-EP4681 W 20050429  
PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 143:459878  
AB A multi-step process for the preparation of cyclic diketones [e.g.,  
4-(4-chlorophenylcarbonyloxy)bicyclo[3.2.1]oct-3-en-2-one] is presented.  
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 4 HCPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2005:1196142 HCPLUS  
DOCUMENT NUMBER: 143:459877  
TITLE: Process for the production of cyclic diketones  
INVENTOR(S): Jackson, David Anthony; Edmunds, Andrew;  
Bowden, Martin Charles; Brockbank, Ben  
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.; Syngenta  
Limited  
SOURCE: PCT Int. Appl., 28 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005105718	A2	20051110	WO 2005-EP4680	20050429
WO 2005105718	A3	20060504		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005238194	A1	20051110	AU 2005-238194	20050429
CA 2562152	A1	20051110	CA 2005-2562152	20050429
EP 1740524	A2	20070110	EP 2005-738471	20050429
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1950319	A	20070418	CN 2005-80013809	20050429

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MX 2006PA12161	A	20070117	MX 2006-PA12161	20061020
KR 2007008671	A	20070117	KR 2006-722687	20061030
IN 2006CN04021	A	20070810	IN 2006-CN4021	20061101
PRIORITY APPLN. INFO.:			CH 2004-766	A 20040430
			WO 2005-EP4680	W 20050429

OTHER SOURCE(S): CASREACT 143:459877; MARPAT 143:459877  
AB A process for the preparation of cyclic diketones [e.g., 4-(4-chlorophenylcarbonyloxy)bicyclo[3.2.1]oct-3-en-2-one] is presented.

L6 ANSWER 3 OF 4 HCPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2005:1195899 HCPLUS  
DOCUMENT NUMBER: 143:459792  
TITLE: Bromination and oxidative debromination process for the preparation of cyclic diketones from cycloalkenes  
INVENTOR(S): Jackson, David Anthony; Edmunds, Andrew; Bowden, Martin Charles; Brockbank, Ben  
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.; Syngenta Limited  
SOURCE: PCT Int. Appl., 16 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005105717	A1	20051110	WO 2005-EP4655	20050429
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: CH 2004-764 A 20040430  
OTHER SOURCE(S): CASREACT 143:459792; MARPAT 143:459792  
AB A bromination and oxidative debromination process for the preparation of cyclic diketones (e.g., bicyclo[3.2.1]octane-2,4-dione) from cycloalkenes (e.g., bicyclo[3.2.1]oct-2-ene), in which bromination of a cycloalkene followed by treatment of the brominated intermediate (e.g., 2,4,4-tribromobicyclo[3.2.1]oct-2-ene) with an aqueous solution of an acid or a base, is presented.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

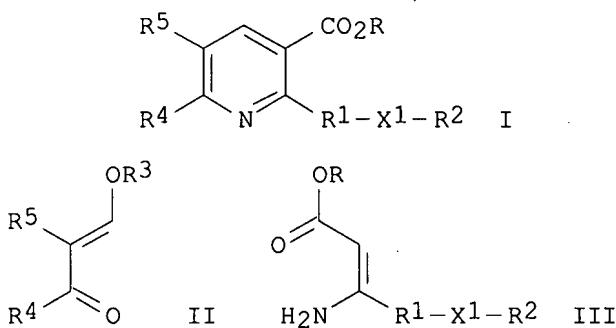
L6 ANSWER 4 OF 4 HCPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:756694 HCPLUS  
DOCUMENT NUMBER: 141:277496  
TITLE: Process for the preparation of substituted nicotinic acid esters  
INVENTOR(S): Jackson, David Anthony; Bowden, Martin Charles  
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

10547840

SOURCE: PCT Int. Appl., 98 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004078729	A1	20040916	WO 2004-EP2291	20040305
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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EP 1601653	A1	20051207	EP 2004-717574	20040305
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
CN 1753872	A	20060329	CN 2004-80004908	20040305
BR 2004008160	A	20060411	BR 2004-8160	20040305
JP 2006519803	T	20060831	JP 2006-504564	20040305
US 2006199964	A1	20060907	US 2005-547840	20050906
IN 2005CN02175	A	20070831	IN 2005-CN2175	20050906
PRIORITY APPLN. INFO.:			CH 2003-373	A 20030307
			WO 2004-EP2291	W 20040305

OTHER SOURCE(S): MARPAT 141:277496  
GI

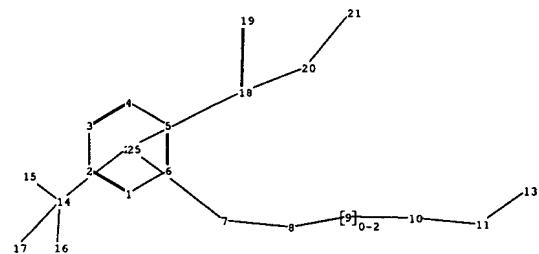
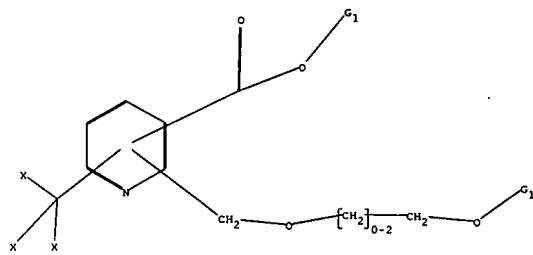


AB A process for the preparation of substituted nicotinic acid esters I [R = alkyl; R1 = (un)substituted alkylene, alkenylene; R2 = H, (un)substituted alkyl, alkenyl, alkynyl, etc.; R4 = haloalkyl; R5 = hydroxy, cycloalkyloxy, (alkoxy)alkoxy, etc.; X = O, OCO, CO<sub>2</sub>, etc.], which process comprises reacting a compound of formula II [R<sub>3</sub> = (cyclo)alkyl, R<sub>4</sub> and R<sub>4</sub> are defined as above] with a compound of formula III (R, R<sub>1</sub>, R<sub>2</sub> and X are defined as above) in an inert solvent in the presence of a proton source, is disclosed. For example, reaction of Et 3-oxo-4-methoxyethoxybutanoate with 1-ethoxy-3-oxo-4,4,4-trifluorobutene gave 2-methoxyethoxymethyl-3-

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ethoxycarbonyl-6-trifluoromethylpyridine in 62% yield. Thus, the present invention provides a novel process producing the title compound at reasonable cost, in good yield and with good quality.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



chain nodes :

7 8 9 10 11 13 14 15 16 17 18 19 20 21

ring nodes :

1 2 3 4 5 6

chain bonds :

7-8 8-9 9-10 10-11 11-13 14-17 14-15 14-16 18-19 18-20 20-21

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

11-13 18-19 18-20 20-21

exact bonds :

7-8 8-9 9-10 10-11 14-17 14-15 14-16

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

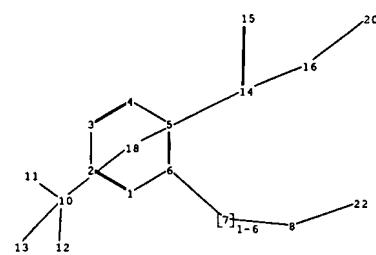
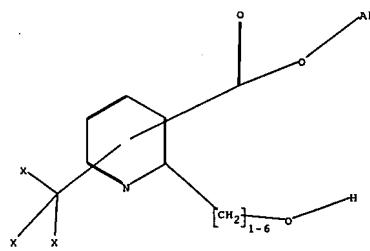
isolated ring systems :

containing 1 :

G1:CH3,Et

Match level :

1:Atom	2:Atom	3:Atom	4:Atom	5:Atom	6:Atom	7:CLASS	8:CLASS	9:CLASS
10:CLASS	11:CLASS	13:CLASS	14:CLASS	15:CLASS	16:CLASS	17:CLASS		
18:CLASS	19:CLASS	20:CLASS	21:CLASS	23:Atom	24:Atom	25:Atom		



chain nodes :  
7 8 10 11 12 13 14 15 16 20 22

ring nodes :  
1 2 3 4 5 6

chain bonds :  
6-7 7-8 8-22 10-13 10-11 10-12 14-15 14-16 16-20

ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :  
14-15 14-16 16-20

exact bonds :  
6-7 7-8 8-22 10-13 10-11 10-12

normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6

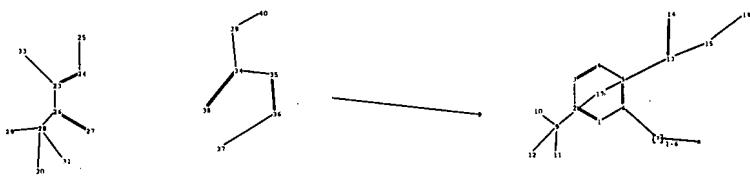
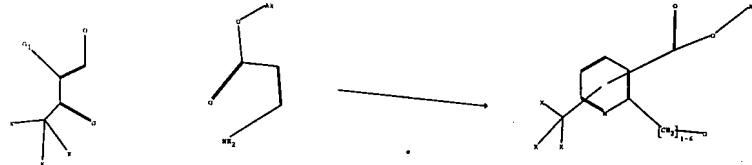
isolated ring systems :  
containing 1 :

G1:CH3,Et

Connectivity :  
20:1 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 10:CLASS  
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:Atom  
18:Atom 20:CLASS 22:CLASS



chain nodes :  
 7 8 9 10 11 12 13 14 15 19 23 24 25 26 27 28 29 30 31 33  
 34 35 36 37 38 39 40

ring nodes :  
 1 2 3 4 5 6

chain bonds :  
 6-7 7-8 9-12 9-10 9-11 13-14 13-15 15-19 23-24 23-26 23-33 24-25  
 26-27 26-28 28-29 28-30 28-31 34-35 34-38 34-39 35-36 36-37 39-40

ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :  
 13-14 13-15 15-19 23-33 24-25 26-27 34-38 34-39 36-37 39-40

exact bonds :  
 6-7 7-8 9-12 9-10 9-11 23-24 23-26 26-28 28-29 28-30 28-31 34-35  
 35-36

normalized bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :  
 containing 1 :

G1:Cy, Ak

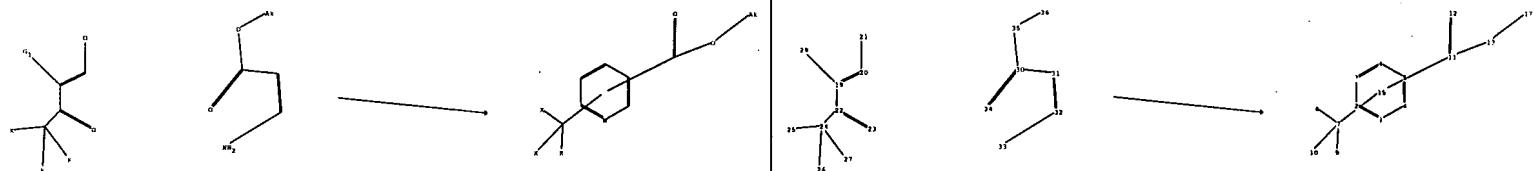
Connectivity :  
 19:1 E exact RC ring/chain

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 17:Atom 19:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS  
 28:CLASS 29:CLASS 30:CLASS 31:CLASS 33:CLASS 34:CLASS 35:CLASS  
 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS

fragments assigned reactant role:  
 containing 23  
 containing 34

fragments assigned product role:

containing 1.



chain nodes :  
 7 8 9 10 11 12 13 17 19 20 21 22 23 24 25 26 27 29 30 31  
 32 33 34 35 36

ring nodes :  
 1 2 3 4 5 6

chain bonds :  
 7-10 7-8 7-9 11-12 11-13 13-17 19-20 19-22 19-29 20-21 22-23  
 22-24 24-25 24-26 24-27 30-31 30-34 30-35 31-32 32-33 35-36

ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :  
 11-12 11-13 13-17 19-29 20-21 22-23 30-34 30-35 32-33 35-36

exact bonds :  
 7-10 7-8 7-9 19-20 19-22 22-24 24-25 24-26 24-27 30-31 31-32

normalized bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :  
 containing 1 :

G1:Cy,Ak

Connectivity :  
 17:1 E exact RC ring/chain

Match level :

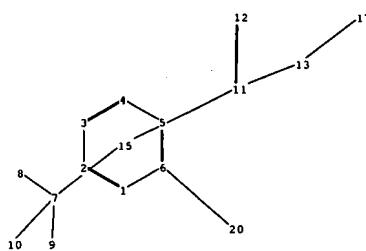
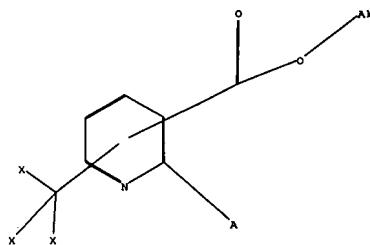
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10:CLASS	11:CLASS	12:CLASS	13:CLASS	14:Atom	15:Atom	17:CLASS		
19:CLASS	20:CLASS	21:CLASS	22:CLASS	23:CLASS	24:CLASS	25:CLASS		
26:CLASS	27:CLASS	29:CLASS	30:CLASS	31:CLASS	32:CLASS	33:CLASS		
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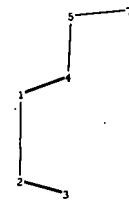
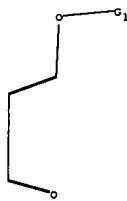
fragments assigned reactant role:

containing 19  
 containing 30

fragments assigned product role:

containing 1.





chain nodes :

1 2 3 4 5 7 8

chain bonds :

1-2 1-4 2-3 4-5 5-7

exact/norm bonds :

2-3 4-5 5-7

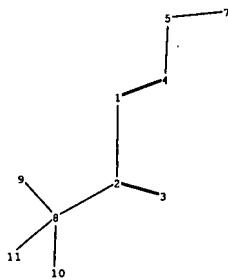
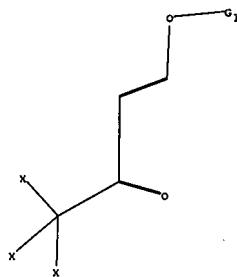
exact bonds :

1-2 1-4

G1:Cy, Ak

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 7:CLASS 8:CLASS



chain nodes :

1 2 3 4 5 7 8 9 10 11

chain bonds :

1-2 1-4 2-3 2-8 4-5 5-7 8-9 8-10 8-11

exact/norm bonds :

2-3 4-5 5-7

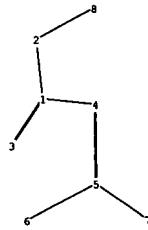
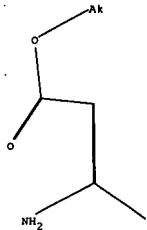
exact bonds :

1-2 1-4 2-8 8-9 8-10 8-11

G1:Cy, Ak

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS



chain nodes :  
1 2 3 4 5 6 7 8

chain bonds :  
1-2 1-3 1-4 2-8 4-5 5-6 5-7

exact/norm bonds :  
1-2 1-3 2-8 5-6

exact bonds :  
1-4 4-5 5-7

Connectivity :  
8:1 E exact RC ring/chain

Match level :  
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 3 JUL 02 SCISEARCH enhanced with complete author names  
NEWS 4 JUL 02 CHEMCATS accession numbers revised  
NEWS 5 JUL 02 CA/CAplus enhanced with utility model patents from China  
NEWS 6 JUL 16 CAplus enhanced with French and German abstracts  
NEWS 7 JUL 18 CA/CAplus patent coverage enhanced  
NEWS 8 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification  
NEWS 9 JUL 30 USGENE now available on STN  
NEWS 10 AUG 06 CAS REGISTRY enhanced with new experimental property tags  
NEWS 11 AUG 06 BEILSTEIN updated with new compounds  
NEWS 12 AUG 06 FSTA enhanced with new thesaurus edition  
NEWS 13 AUG 13 CA/CAplus enhanced with additional kind codes for granted patents  
NEWS 14 AUG 20 CA/CAplus enhanced with CAS indexing in pre-1907 records  
NEWS 15 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB  
NEWS 16 AUG 27 USPATOLD now available on STN  
NEWS 17 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data  
NEWS 18 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index  
NEWS 19 SEP 13 FORIS renamed to SOFIS  
NEWS 20 SEP 13 INPADOCDB enhanced with monthly SDI frequency  
NEWS 21 SEP 17 CA/CAplus enhanced with printed CA page images from 1967-1998  
NEWS 22 SEP 17 CAplus coverage extended to include traditional medicine patents  
  
NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.  
  
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Updated Search

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1  
DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

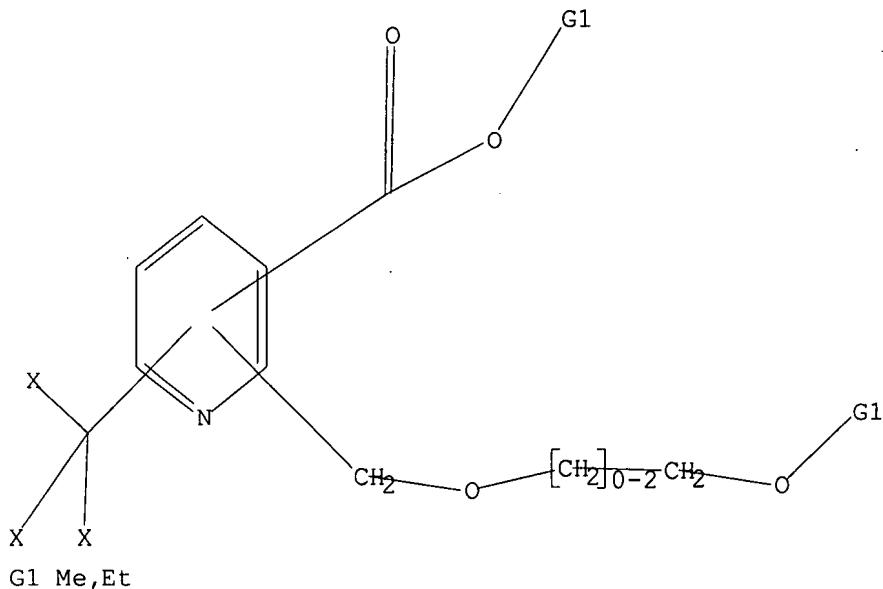
<http://www.cas.org/support/stnqgen/stndoc/properties.html>

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Uploading C:\Documents and Settings\brobins01\My  
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## L1 STRUCTURE UPLOADED

=> d 11  
L1 HAS NO ANSWERS  
L1 STR

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Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED -      309 TO ITERATE

100.0% PROCESSED      309 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                      BATCH **COMPLETE**
PROJECTED ITERATIONS:      5126 TO      7234
PROJECTED ANSWERS:          0 TO          0
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THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
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FULL SCREEN SEARCH COMPLETED -      5749 TO ITERATE
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SEARCH TIME: 00.00.01
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L3 2 SEA SSS FUL L1

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=> file hcaplus
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                               FULL ESTIMATED COST          174.80 SESSION 175.01
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FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007
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Updated Search

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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13  
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 2 L3

=> d 14, ibib abs hitstr, 1-2

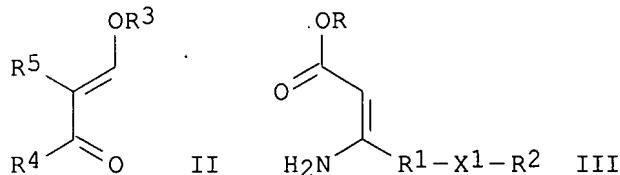
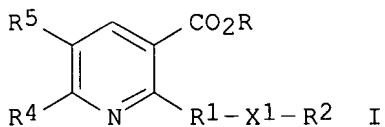
L4 ANSWER 1 OF 2 HCPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:756694 HCPLUS  
DOCUMENT NUMBER: 141:277496  
TITLE: Process for the preparation of substituted nicotinic acid esters  
INVENTOR(S): Jackson, David Anthony; Bowden, Martin Charles  
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.  
SOURCE: PCT Int. Appl., 98 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004078729	A1	20040916	WO 2004-EP2291	20040305
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004218241	A1	20040916	AU 2004-218241	20040305
EP 1601653	A1	20051207	EP 2004-717574	20040305
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
CN 1753872	A	20060329	CN 2004-80004908	20040305
BR 2004008160	A	20060411	BR 2004-8160	20040305
JP 2006519803	T	20060831	JP 2006-504564	20040305

10547840

US 2006199964 IN 2005CN02175 PRIORITY APPLN. INFO.:	A1 20060907 A 20070831	US 2005-547840 IN 2005-CN2175 CH 2003-373 WO 2004-EP2291	20050906 20050906 A 20030307 W 20040305
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OTHER SOURCE(S): MARPAT 141:277496  
GI



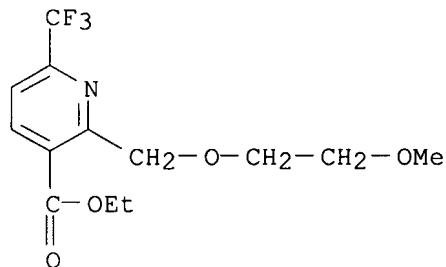
AB A process for the preparation of substituted nicotinic acid esters I [R = alkyl; R1 = (un)substituted alkylene, alkenylene; R2 = H, (un)substituted alkyl, alkenyl, alkynyl, etc.; R4 = haloalkyl; R5 = hydroxy, cycloalkyloxy, (alkoxy)alkoxy, etc.; X = O, OCO, CO<sub>2</sub>, etc.], which process comprises reacting a compound of formula II [R<sub>3</sub> = (cyclo)alkyl, R<sub>4</sub> and R<sub>5</sub> are defined as above] with a compound of formula III (R, R<sub>1</sub>, R<sub>2</sub> and X are defined as above) in an inert solvent in the presence of a proton source, is disclosed. For example, reaction of Et 3-oxo-4-methoxyethoxybutanoate with 1-ethoxy-3-oxo-4,4,4-trifluorobutene gave 2-methoxyethoxymethyl-3-ethoxycarbonyl-6-trifluoromethylpyridine in 62% yield. Thus, the present invention provides a novel process producing the title compound at reasonable cost, in good yield and with good quality.

IT 757218-51-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of nicotinic acid esters)

RN 757218-51-2 HCPLUS

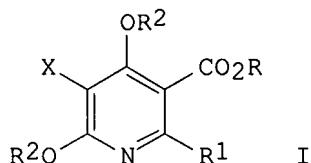
CN 3-Pyridinecarboxylic acid, 2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1986:497334 HCAPLUS  
 DOCUMENT NUMBER: 105:97334  
 TITLE: Substituted 4,6-alkoxypyridinecarboxylate compounds  
 INVENTOR(S): Lee, Len Fang  
 PATENT ASSIGNEE(S): Monsanto Co., USA  
 SOURCE: Eur. Pat. Appl., 49 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 181311	A2	19860514	EP 1985-870150	19851105
EP 181311	A3	19880713		
EP 181311	B1	19900829		
R: AT, BE, CH, US 4609399	DE, FR, GB, IT, LI, LU, NL, SE			
AU 8549336	A	19860902	US 1984-668790	19841106
AU 574857	A	19860529	AU 1985-49336	19851104
JP 61115070	B2	19880714		
JP 06057697	A	19860602	JP 1985-247867	19851105
ZA 8508501	B	19940803		
CA 1230122	A	19860827	ZA 1985-8501	19851105
AT 55990	A1	19871208	CA 1985-494605	19851105
US 4741766	T	19900915	AT 1985-870150	19851105
PRIORITY APPLN. INFO.:	A	19880503	US 1986-869490	19860602
OTHER SOURCE(S): GI	CASREACT 105:97334; MARPAT 105:97334		US 1984-668790	A 19841106
			EP 1985-870150	A 19851105



AB Pyridinecarboxylates I [R = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl; R1 = fluorinated or chlorofluorinated Me; R2 = H, alkyl; X = H, CO2R3, CONR4R5, cyano, alkyl, haloalkyl, alkoxyalkoxyalkyl, cyanoalkyl, carbalkoxyalkyl; R3 = H, alkyl, alkenyl, alkynyl, haloalkyl; R4, R5 = H, alkyl] are prepared as herbicides or intermediates thereof. Thus, cyclocondensation of EtO2CC.tplbond.CCO2Et with CF3CN in the presence of KOCMe3 gave 95% I (R = Et, R1 = CF3, R2 = X = H), which was methylated by K2CO3-MeI to give 64.5% I (R = Et, R1 = CF3, R2 = Me, X = H). This compound was lithiated by (Me2CH)2NLi at -78°, followed by carboxylation with Dry Ice, to give 95% I (R = Et, R1 = CF3, R2 = Me, X = CO2H), which was esterified by SOCl2-MeOH to give 42% I (R = Et, R1 = CF3, R2 = Me, X = CO2Me) (II). At 1.12 kg/ha (preemergent), II gave 75-100% control of several weeds, e.g. barnyard grass, with 0-24% inhibition of wheat and rice.

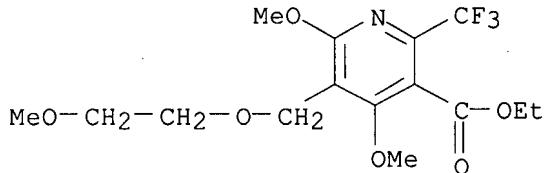
IT 103901-01-5P

10547840

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

RN 103901-01-5 HCAPLUS

CN 3-Pyridinecarboxylic acid, 4,6-dimethoxy-5-[(2-methoxyethoxy)methyl]-2-(trifluoromethyl)-, ethyl ester (9CI) (CA INDEX NAME)



=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	33.94	208.95
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

FILE 'CAOLD' ENTERED AT 19:43:55 ON 19 SEP 2007

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> d his

(FILE 'HOME' ENTERED AT 19:34:01 ON 19 SEP 2007)

FILE 'REGISTRY' ENTERED AT 19:34:07 ON 19 SEP 2007

L1 STRUCTURE UPLOADED

L2 O S L1

L3 2 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007

Updated Search

10547840

L4 2 S L3

FILE 'CAOLD' ENTERED AT 19:43:55 ON 19 SEP 2007

=> s 13  
L5 0 L3

=> file reg  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
FULL ESTIMATED COST ENTRY SESSION  
0.45 209.40  
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL  
CA SUBSCRIBER PRICE ENTRY SESSION  
0.00 -1.56

FILE 'REGISTRY' ENTERED AT 19:44:00 ON 19 SEP 2007  
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STRUCTURE FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1  
DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

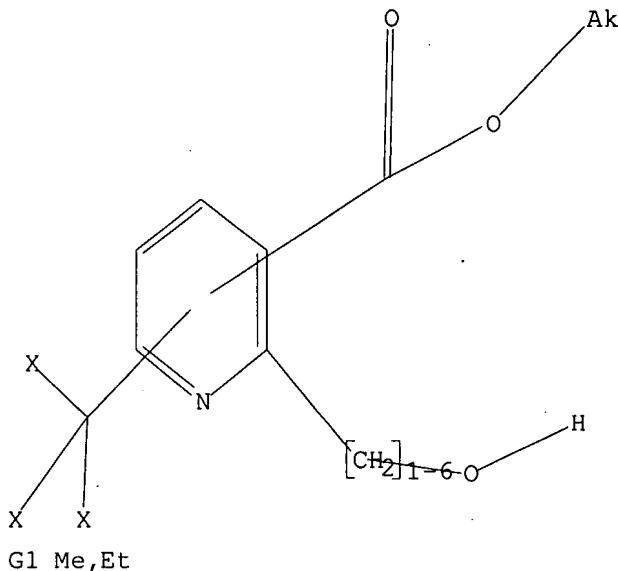
=>  
Uploading C:\Documents and Settings\brobinson1\My  
Documents\stnweb\Queries\23123e.str

L6 STRUCTURE UPLOADED

=> d 16  
L6 HAS NO ANSWERS  
L6 STR

Updated Search

10547840



G1 Me,Et

Structure attributes must be viewed using STN Express query preparation.

=> s 16

SAMPLE SEARCH INITIATED 19:46:21 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 595 TO ITERATE

100.0% PROCESSED 595 ITERATIONS  
SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 10437 TO 13363  
PROJECTED ANSWERS: 1 TO 80

L7 1 SEA SSS SAM L6

=> s 16 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y  
FULL SEARCH INITIATED 19:46:25 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 11029 TO ITERATE

100.0% PROCESSED 11029 ITERATIONS  
SEARCH TIME: 00.00.01

1 ANSWERS

L8 1 SEA SSS FUL L6

=> file hcaplus  
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	173.45	382.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.56

Updated Search

10547840

FILE 'HCAPLUS' ENTERED AT 19:46:29 ON 19 SEP 2007  
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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13  
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

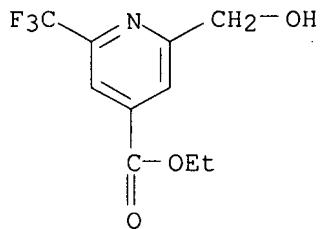
This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 18
L9          1 L8

=> d 19, ibib abs hitstr, 1

L9  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:      1973:92575  HCAPLUS
DOCUMENT NUMBER:       78:92575
TITLE:                 Antimalarials. 4. 4-Pyridinemethanols with styryl
                      and benzoyl substituents
AUTHOR(S):             LaMontagne, M. P.
CORPORATE SOURCE:      Ash Stevens Inc., Detroit, MI, USA
SOURCE:                Journal of Medicinal Chemistry (1973), 16(1), 68-72
                      CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE:         Journal
LANGUAGE:              English
AB      The most potent antimalarial of 7 styryl-substituted 4-pyridinemethanols
        prepared was  $\alpha$ -[(di-n-butylamino)methyl]-2-(4-chlorostyryl)-6-
        (trifluoromethyl)-4-pyridinemethanol-HCl (I) [38897-97-1], which was
        curative against Plasmodium berghei in mice at 20 mg/kg. I was
        synthesized from Et 6-(trifluoromethyl)-2-picoline-4-carboxylate
        [38897-98-2] by oxidation to the 2-pyridylcarbinol acetate with CF3CO3H and
        Ac2O, hydrolysis with NaOEt, oxidation to the aldehyde with SeO2, reaction
        with 4-chlorophenyltriphenylphosphonium methylide [38897-99-3] to introduce
        the styryl group, hydrolysis of the Et ester to the isonicotinic acid, and
        introduction of the side chain by the method of R. E. Lutz, et al. (1946).
IT      39965-94-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
      (preparation of)
RN      39965-94-1  HCAPLUS
CN      4-Pyridinecarboxylic acid, 2-(hydroxymethyl)-6-(trifluoromethyl)-, ethyl
      ester (9CI)  (CA INDEX NAME)
```

10547840



=> file casreact			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
FULL ESTIMATED COST	ENTRY	SESSION	
	7.87	390.72	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
CA SUBSCRIBER PRICE	ENTRY	SESSION	
	-0.78	-2.34	

FILE 'CASREACT' ENTERED AT 19:47:22 ON 19 SEP 2007  
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FILE CONTENT:1840 - 15 Sep 2007 VOL 147 ISS 13

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\*\*\*\*\*  
\*  
\* CASREACT now has more than 12 million reactions \*  
\*  
\*\*\*\*\*

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>  
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\njikm.str

L10 STRUCTURE UPLOADED

=> d 110  
L10 HAS NO ANSWERS  
L10 STR

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.

Updated Search

10547840

```
=> s 110
SAMPLE SEARCH INITIATED 19:53:11 FILE 'CASREACT'
SCREENING COMPLETE -          0 REACTIONS TO VERIFY FROM      0 DOCUMENTS
100.0% DONE      0 VERIFIED      0 HIT RXNS      0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:    0 TO      0
PROJECTED ANSWERS:          0 TO      0

L11      0 SEA SSS SAM L10 (      0 REACTIONS)
```

```
=> s 110 full
THE ESTIMATED SEARCH COST FOR FILE 'CASREACT' IS 113.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 19:53:15 FILE 'CASREACT'
SCREENING COMPLETE -          6 REACTIONS TO VERIFY FROM      3 DOCUMENTS
100.0% DONE      6 VERIFIED      0 HIT RXNS      0 DOCS
SEARCH TIME: 00.00.01

L12      0 SEA SSS FUL L10 (      0 REACTIONS)
```

```
=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\nght.str
L13      STRUCTURE UPLOADED

=> d 113
L13 HAS NO ANSWERS
L13      STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
```

Structure attributes must be viewed using STN Express query preparation.

```
=> s 113
SAMPLE SEARCH INITIATED 19:54:49 FILE 'CASREACT'
SCREENING COMPLETE -          13 REACTIONS TO VERIFY FROM      4 DOCUMENTS
100.0% DONE      13 VERIFIED      0 HIT RXNS      0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:    44 TO      476
PROJECTED ANSWERS:          0 TO      0

L14      0 SEA SSS SAM L13 (      0 REACTIONS)
```

```
=> s 113 full
THE ESTIMATED SEARCH COST FOR FILE 'CASREACT' IS 113.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 19:54:53 FILE 'CASREACT'
```

Updated Search

10547840

SCREENING COMPLETE - 199 REACTIONS TO VERIFY FROM 40 DOCUMENTS

100.0% DONE 199 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

L15 0 SEA SSS FUL L13 ( 0 REACTIONS)

=> file reg  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 232.50 623.22  
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL  
ENTRY SESSION  
CA SUBSCRIBER PRICE 0.00 -2.34

FILE 'REGISTRY' ENTERED AT 19:55:58 ON 19 SEP 2007  
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STRUCTURE FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1  
DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\fgfg.str

L16 STRUCTURE UPLOADED

=> s 116  
SAMPLE SEARCH INITIATED 19:57:55 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 12361 TO ITERATE

16.2% PROCESSED 2000 ITERATIONS 17 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 240559 TO 253881  
PROJECTED ANSWERS: 1486 TO 2716

Updated Search

10547840

L17 17 SEA SSS SAM L16

=> s l16 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y  
FULL SEARCH INITIATED 19:58:00 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 247678 TO ITERATE

100.0% PROCESSED 247678 ITERATIONS  
SEARCH TIME: 00.00.03

2340 ANSWERS

L18 2340 SEA SSS FUL L16

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
173.45	796.67

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
0.00	-2.34

CA SUBSCRIBER PRICE

FILE 'HCAPLUS' ENTERED AT 19:58:05 ON 19 SEP 2007  
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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13  
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l18/prep

380 L18

4463139 PREP/RL

L19 151 L18/PREP

(L18 (L) PREP/RL)

=> file reg

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
2.60	799.27

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION

Updated Search

10547840

CA SUBSCRIBER PRICE 0.00 -2.34

FILE 'REGISTRY' ENTERED AT 19:58:11 ON 19 SEP 2007  
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DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Documents and Settings\brobins01\My Documents\stnweb\Queries\nhuj.str

L20 STRUCTURE uploaded

=> s 120  
SAMPLE SEARCH INITIATED 20:02:10 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 15842 TO ITERATE

12.6% PROCESSED 2000 ITERATIONS 50 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 309302 TO 324378  
PROJECTED ANSWERS: 24578 TO 28966

L21 50 SEA SSS SAM L20

=> s 120 full  
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y  
FULL SEARCH INITIATED 20:02:15 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 317398 TO ITERATE

100.0% PROCESSED 317398 ITERATIONS 25690 ANSWERS  
SEARCH TIME: 00.00.04

L22 25690 SEA SSS FUL L20

=> file hcaplus

Updated Search

10547840

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	174.80	974.07
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.34

FILE 'HCAPLUS' ENTERED AT 20:02:22 ON 19 SEP 2007  
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FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l22/rct
      12478 L22
      3016177 RCT/RL
L23      6326 L22/RCT
          (L22 (L) RCT/RL)
```

=> d his

(FILE 'HOME' ENTERED AT 19:34:01 ON 19 SEP 2007)

FILE 'REGISTRY' ENTERED AT 19:34:07 ON 19 SEP 2007
L1 STRUCTURE UPLOADED
L2 0 S L1
L3 2 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007
L4 2 S L3

FILE 'CAOLD' ENTERED AT 19:43:55 ON 19 SEP 2007
L5 0 S L3

FILE 'REGISTRY' ENTERED AT 19:44:00 ON 19 SEP 2007
L6 STRUCTURE UPLOADED
L7 1 S L6
L8 1 S L6 FULL

FILE 'HCAPLUS' ENTERED AT 19:46:29 ON 19 SEP 2007

Updated Search

10547840

L9 1 S L8

FILE 'CASREACT' ENTERED AT 19:47:22 ON 19 SEP 2007

L10 STRUCTURE uploaded  
L11 0 S L10  
L12 0 S L10 FULL  
L13 STRUCTURE uploaded  
L14 0 S L13  
L15 0 S L13 FULL

FILE 'REGISTRY' ENTERED AT 19:55:58 ON 19 SEP 2007

L16 STRUCTURE uploaded  
L17 17 S L16  
L18 2340 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 19:58:05 ON 19 SEP 2007

L19 151 S L18/PREP

FILE 'REGISTRY' ENTERED AT 19:58:11 ON 19 SEP 2007

L20 STRUCTURE uploaded  
L21 50 S L20  
L22 25690 S L20 FULL

FILE 'HCAPLUS' ENTERED AT 20:02:22 ON 19 SEP 2007

L23 6326 S L22/RCT

=> s 123 and 119  
L24 28 L23 AND L19

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	976.67
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.34

FILE 'REGISTRY' ENTERED AT 20:02:41 ON 19 SEP 2007  
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STRUCTURE FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1  
DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information

Updated Search

10547840

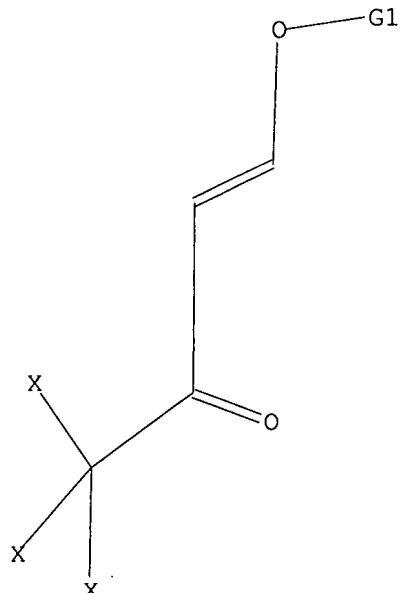
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Documents and Settings\brobinsone\My  
Documents\stnweb\Queries\asdfjn.str

L25 STRUCTURE UPLOADED

=> d 125  
L25 HAS NO ANSWERS  
L25 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 125  
SAMPLE SEARCH INITIATED 20:04:39 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 501 TO ITERATE  
  
100.0% PROCESSED 501 ITERATIONS 31 ANSWERS  
SEARCH TIME: 00.00.01  
  
FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
                          BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 8678 TO 11362  
PROJECTED ANSWERS: 286 TO 954

L26 31 SEA SSS SAM L25

=> s 125 full  
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS

Updated Search

10547840

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y  
FULL SEARCH INITIATED 20:04:43 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 9346 TO ITERATE

100.0% PROCESSED 9346 ITERATIONS  
SEARCH TIME: 00.00.01

449 ANSWERS

L27 449 SEA SSS FUL L25

=> file hcaplus		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	173.00	1149.67
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.34

FILE 'HCAPLUS' ENTERED AT 20:04:46 ON 19 SEP 2007  
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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13  
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 127/rct  
406 L27  
3016177 RCT/RL  
L28 340 L27/RCT  
(L27 (L) RCT/RL)

=> d his

(FILE 'HOME' ENTERED AT 19:34:01 ON 19 SEP 2007)

FILE 'REGISTRY' ENTERED AT 19:34:07 ON 19 SEP 2007  
L1 STRUCTURE uploaded  
L2 0 S L1  
L3 2 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007  
L4 2 S L3

Updated Search

10547840

FILE 'CAOLD' ENTERED AT 19:43:55 ON 19 SEP 2007  
L5 O S L3

FILE 'REGISTRY' ENTERED AT 19:44:00 ON 19 SEP 2007  
L6 STRUCTURE uploaded  
L7 1 S L6  
L8 1 S L6 FULL

FILE 'HCAPLUS' ENTERED AT 19:46:29 ON 19 SEP 2007  
L9 1 S L8

FILE 'CASREACT' ENTERED AT 19:47:22 ON 19 SEP 2007  
L10 STRUCTURE uploaded  
L11 0 S L10  
L12 0 S L10 FULL  
L13 STRUCTURE uploaded  
L14 0 S L13  
L15 0 S L13 FULL

FILE 'REGISTRY' ENTERED AT 19:55:58 ON 19 SEP 2007  
L16 STRUCTURE uploaded  
L17 17 S L16  
L18 2340 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 19:58:05 ON 19 SEP 2007  
L19 151 S L18/PREP

FILE 'REGISTRY' ENTERED AT 19:58:11 ON 19 SEP 2007  
L20 STRUCTURE uploaded  
L21 50 S L20  
L22 25690 S L20 FULL

FILE 'HCAPLUS' ENTERED AT 20:02:22 ON 19 SEP 2007  
L23 6326 S L22/RCT  
L24 28 S L23 AND L19

FILE 'REGISTRY' ENTERED AT 20:02:41 ON 19 SEP 2007  
L25 STRUCTURE uploaded  
L26 31 S L25  
L27 449 S L25 FULL

FILE 'HCAPLUS' ENTERED AT 20:04:46 ON 19 SEP 2007  
L28 340 S L27/RCT

=> s l28 and l19  
L29 18 L28 AND L19

=> file reg  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 2.60 1152.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-2.34

FILE 'REGISTRY' ENTERED AT 20:05:13 ON 19 SEP 2007  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

Updated Search

10547840

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STRUCTURE FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1  
DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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Uploading C:\Documents and Settings\brobins01\My Documents\stnweb\Queries\asdnb.str

L30 STRUCTURE uploaded

=> s 130  
SAMPLE SEARCH INITIATED 20:08:00 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 3213 TO ITERATE

62.2% PROCESSED 2000 ITERATIONS 45 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 60861 TO 67659  
PROJECTED ANSWERS: 935 TO 1955

L31 45 SEA SSS SAM L30

=> s 130 full  
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y  
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FULL SCREEN SEARCH COMPLETED - 64867 TO ITERATE

100.0% PROCESSED 64867 ITERATIONS 1357 ANSWERS  
SEARCH TIME: 00.00.02

L32 1357 SEA SSS FUL L30

=> file hcaplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
FULL ESTIMATED COST ENTRY SESSION  
173.90 1326.17

Updated Search

10547840

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.34

FILE 'HCAPLUS' ENTERED AT 20:08:09 ON 19 SEP 2007  
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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13  
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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      3016177 RCT/RL
L33      1858 L32/RCT
          (L32 (L) RCT/RL)
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L3 2 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007
L4 2 S L3

FILE 'CAOLD' ENTERED AT 19:43:55 ON 19 SEP 2007
L5 0 S L3

FILE 'REGISTRY' ENTERED AT 19:44:00 ON 19 SEP 2007
L6 STRUCTURE UPLOADED
L7 1 S L6
L8 1 S L6 FULL

FILE 'HCAPLUS' ENTERED AT 19:46:29 ON 19 SEP 2007
L9 1 S L8

FILE 'CASREACT' ENTERED AT 19:47:22 ON 19 SEP 2007
L10 STRUCTURE UPLOADED

Updated Search

10547840

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L17           17 S L16  
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FILE 'REGISTRY' ENTERED AT 19:58:11 ON 19 SEP 2007  
L20           STRUCTURE uploaded  
L21           50 S L20  
L22           25690 S L20 FULL

FILE 'HCAPLUS' ENTERED AT 20:02:22 ON 19 SEP 2007  
L23           6326 S L22/RCT  
L24           28 S L23 AND L19

FILE 'REGISTRY' ENTERED AT 20:02:41 ON 19 SEP 2007  
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L27           449 S L25 FULL

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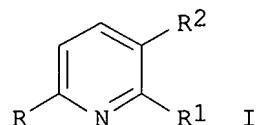
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L34           3 L33 AND L29

=> d 134, ibib abs hitstr, 1-3

L34 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2006:538262 HCAPLUS  
DOCUMENT NUMBER: 145:45948  
TITLE: Preparation of substituted pyridines as intermediates  
      in the production of pharmaceutical, chemical and  
      agro-chemical products  
INVENTOR(S): Fisher, Raymond; Lund, Andrew  
PATENT ASSIGNEE(S): Peakdale Molecular Ltd., UK  
SOURCE: PCT Int. Appl., 51 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

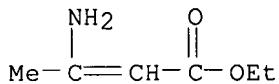
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006059103	A2	20060608	WO 2005-GB4596	20051201
WO 2006059103	A3	20070222		
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RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 1824828	A2	20070829	EP 2005-813916	20051201
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU			
PRIORITY APPLN. INFO.:			GB 2004-26576 US 2004-633370P WO 2005-GB4596	A 20041203 P 20041203 W 20051201

OTHER SOURCE(S): MARPAT 145:45948  
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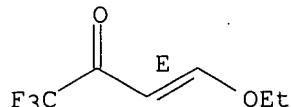
- AB The present invention relates to substituted pyridines I [R = fluorinated alkyl, COR<sub>3</sub>, CO<sub>2</sub>R<sub>3</sub>, etc.; R<sub>1</sub> = NR<sub>3</sub>R<sub>3</sub>, hydrocarbyl optionally substituted by one or more of halo, CO<sub>2</sub>R<sub>4</sub>, etc.; R<sub>2</sub> = halo, alkyl, NO<sub>2</sub>, etc.; or R<sub>1</sub> and R<sub>2</sub> together form (un)saturated 5-6 membered ring containing 0-3 heteroatoms which is further optionally fused to another (un)saturated 5-6 membered ring containing 0-3 heteroatoms; R<sub>3</sub> = H, halo, CN, etc.; R<sub>4</sub> = H, halo, CN, etc.] and derivs. thereof, and to a process for preparing these substituted pyridines. Synthesis of compds. I was presented in several synthetic examples. Thus, reacting (3E)-4-ethoxy-1,1,1-trifluorobut-3-en-3-one with Et 3-oxobutanoate afforded 70% I [R = CF<sub>3</sub>; R<sub>1</sub> = Me; R<sub>2</sub> = CO<sub>2</sub>Et]. The invention also relates to the use of the substituted pyridines as intermediates in the production of pharmaceutical, chemical and agro-chemical products.
- IT 7318-00-5, Ethyl 3-aminocrotonate 59938-06-6,  
(3E)-4-Ethoxy-1,1,1-trifluorobut-3-en-2-one  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of substituted pyridines as intermediates in production of pharmaceutical, chemical and agro-chemical products)
- RN 7318-00-5 HCPLUS
- CN 2-Butenoic acid, 3-amino-, ethyl ester (CA INDEX NAME)

10547840

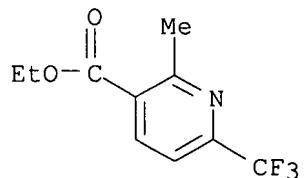


RN 59938-06-6 HCPLUS  
CN 3-Buten-2-one, 4-ethoxy-1,1,1-trifluoro-, (3E)- (CA INDEX NAME)

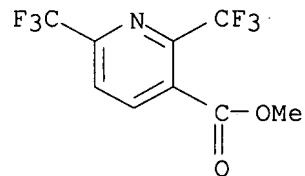
Double bond geometry as shown.



IT 380355-65-7P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of substituted pyridines as intermediates in production of pharmaceutical, chemical and agro-chemical products)  
RN 380355-65-7 HCPLUS  
CN 3-Pyridinecarboxylic acid, 2-methyl-6-(trifluoromethyl)-, ethyl ester (9CI) (CA INDEX NAME)

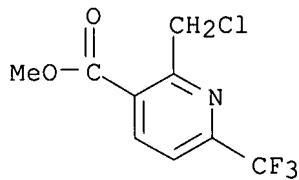


IT 137144-34-4P 280568-09-4P 636588-26-6P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of substituted pyridines as intermediates in production of pharmaceutical, chemical and agro-chemical products)  
RN 137144-34-4 HCPLUS  
CN 3-Pyridinecarboxylic acid, 2,6-bis(trifluoromethyl)-, methyl ester (9CI) (CA INDEX NAME)



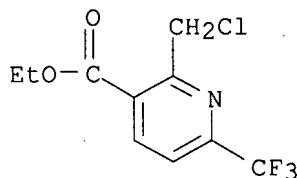
RN 280568-09-4 HCPLUS  
CN 3-Pyridinecarboxylic acid, 2-(chloromethyl)-6-(trifluoromethyl)-, methyl ester (9CI) (CA INDEX NAME)

10547840



RN 636588-26-6 HCPLUS

CN 3-Pyridinecarboxylic acid, 2-(chloromethyl)-6-(trifluoromethyl)-, ethyl ester (9CI) (CA INDEX NAME)



L34 ANSWER 2 OF 3 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:406839 HCPLUS

Correction of: 2005:155216

DOCUMENT NUMBER: 143:248209

Correction of: 142:197768

TITLE: Product class 1: pyridines

AUTHOR(S): Spitzner, D.

CORPORATE SOURCE: Germany

SOURCE: Science of Synthesis (2005), 15, 11-284

CODEN: SSCYJ9

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review of methods to prepare pyridines, pyridine-1-oxides, and pyridinium salts. Methods include cyclization, ring transformations, aromatization and substituent modification.

IT 41867-20-3 59938-06-6 244139-22-8

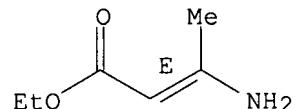
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyridines, pyridine-1-oxides and pyridinium salts via cyclization, ring transformations, aromatization and substituent modification)

RN 41867-20-3 HCPLUS

CN 2-Butenoic acid, 3-amino-, ethyl ester, (2E)- (CA INDEX NAME)

Double bond geometry as shown.

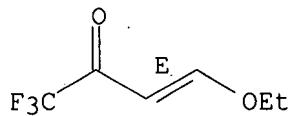


RN 59938-06-6 HCPLUS

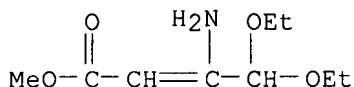
CN 3-Buten-2-one, 4-ethoxy-1,1,1-trifluoro-, (3E)- (CA INDEX NAME)

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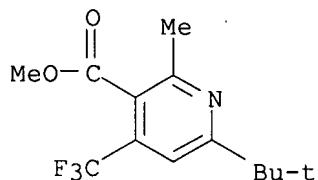
Double bond geometry as shown.



RN 244139-22-8 HCAPLUS  
CN 2-Butenoic acid, 3-amino-4,4-diethoxy-, methyl ester (9CI) (CA INDEX NAME)



IT 178960-67-3P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of pyridines, pyridine-1-oxides and pyridinium salts via cyclization, ring transformations, aromatization and substituent modification)  
RN 178960-67-3 HCAPLUS  
CN 3-Pyridinecarboxylic acid, 6-(1,1-dimethylethyl)-2-methyl-4-(trifluoromethyl)-, methyl ester (9CI) (CA INDEX NAME)



L34 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2004:756694 HCAPLUS  
DOCUMENT NUMBER: 141:277496  
TITLE: Process for the preparation of substituted nicotinic acid esters  
INVENTOR(S): Jackson, David Anthony; Bowden, Martin Charles  
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.  
SOURCE: PCT Int. Appl., 98 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

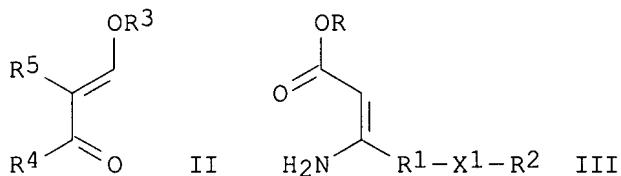
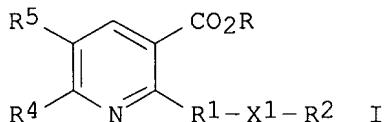
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WO 2004078729	A1	20040916	WO 2004-EP2291	20040305
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RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,  
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MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG  
AU 2004218241 A1 20040916 AU 2004-218241 20040305  
EP 1601653 A1 20051207 EP 2004-717574 20040305  
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CN 1753872 A 20060329 CN 2004-80004908 20040305  
BR 2004008160 A 20060411 BR 2004-8160 20040305  
JP 2006519803 T 20060831 JP 2006-504564 20040305  
US 2006199964 A1 20060907 US 2005-547840 20050906  
IN 2005CN02175 A 20070831 IN 2005-CN2175 20050906  
PRIORITY APPLN. INFO.: CH 2003-373 A 20030307  
WO 2004-EP2291 W 20040305

OTHER SOURCE(S): MARPAT 141:277496  
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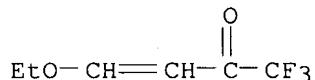
AB A process for the preparation of substituted nicotinic acid esters I [R = alkyl; R1 = (un)substituted alkylene, alkenylene; R2 = H, (un)substituted alkyl, alkenyl, alkynyl, etc.; R4 = haloalkyl; R5 = hydroxy, cycloalkyloxy, (alkoxy)alkoxy, etc.; X = O, OCO, CO<sub>2</sub>, etc.], which process comprises reacting a compound of formula II [R<sub>3</sub> = (cyclo)alkyl, R<sub>4</sub> and R<sub>5</sub> are defined as above] with a compound of formula III (R, R<sub>1</sub>, R<sub>2</sub> and X are defined as above) in an inert solvent in the presence of a proton source, is disclosed. For example, reaction of Et 3-oxo-4-methoxyethoxybutanoate with 1-ethoxy-3-oxo-4,4,4-trifluorobutene gave 2-methoxyethoxymethyl-3-ethoxycarbonyl-6-trifluoromethylpyridine in 62% yield. Thus, the present invention provides a novel process producing the title compound at reasonable cost, in good yield and with good quality.

IT 17129-06-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of nicotinic acid esters)

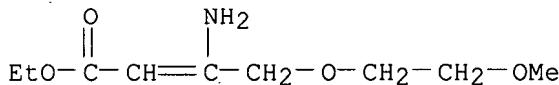
RN 17129-06-5 HCPLUS

CN 3-Buten-2-one, 4-ethoxy-1,1,1-trifluoro- (CA INDEX NAME)

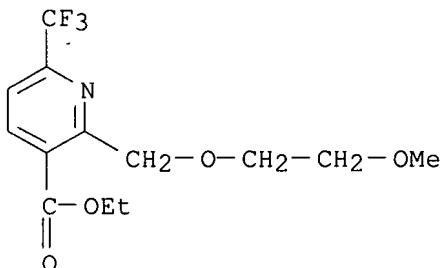


10547840

IT 757218-50-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(preparation of nicotinic acid esters)  
RN 757218-50-1 HCAPLUS  
CN 2-Butenoic acid, 3-amino-4-(2-methoxyethoxy)-, ethyl ester (9CI) (CA  
INDEX NAME)



IT 757218-51-2P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of nicotinic acid esters)  
RN 757218-51-2 HCAPLUS  
CN 3-Pyridinecarboxylic acid, 2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-  
, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	18.41	1344.58
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.34	-4.68

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FILE COVERS 1907-1966  
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts

10547840

printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> d his

(FILE 'HOME' ENTERED AT 19:34:01 ON 19 SEP 2007)

FILE 'REGISTRY' ENTERED AT 19:34:07 ON 19 SEP 2007

L1                   STRUCTURE UPLOADED  
L2                   0 S L1  
L3                   2 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 19:38:17 ON 19 SEP 2007

L4                   2 S L3

FILE 'CAOLD' ENTERED AT 19:43:55 ON 19 SEP 2007

L5                   0 S L3

FILE 'REGISTRY' ENTERED AT 19:44:00 ON 19 SEP 2007

L6                   STRUCTURE UPLOADED  
L7                   1 S L6  
L8                   1 S L6 FULL

FILE 'HCAPLUS' ENTERED AT 19:46:29 ON 19 SEP 2007

L9                   1 S L8

FILE 'CASREACT' ENTERED AT 19:47:22 ON 19 SEP 2007

L10                  STRUCTURE UPLOADED  
L11                  0 S L10  
L12                  0 S L10 FULL  
L13                  STRUCTURE UPLOADED  
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L18                  2340 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 19:58:05 ON 19 SEP 2007

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FILE 'REGISTRY' ENTERED AT 19:58:11 ON 19 SEP 2007

L20                  STRUCTURE UPLOADED  
L21                  50 S L20  
L22                  25690 S L20 FULL

FILE 'HCAPLUS' ENTERED AT 20:02:22 ON 19 SEP 2007

L23                  6326 S L22/RCT  
L24                  28 S L23 AND L19

FILE 'REGISTRY' ENTERED AT 20:02:41 ON 19 SEP 2007

L25                  STRUCTURE UPLOADED

Updated Search

10547840

L26 31 S L25  
L27 449 S L25 FULL

FILE 'HCAPLUS' ENTERED AT 20:04:46 ON 19 SEP 2007  
L28 340 S L27/RCT  
L29 18 S L28 AND L19

FILE 'REGISTRY' ENTERED AT 20:05:13 ON 19 SEP 2007  
L30 STRUCTURE UPLOADED  
L31 45 S L30  
L32 1357 S L30 FULL

FILE 'HCAPLUS' ENTERED AT 20:08:09 ON 19 SEP 2007  
L33 1858 S L32/RCT  
L34 3 S L33 AND L29

FILE 'CAOLD' ENTERED AT 20:08:33 ON 19 SEP 2007

=> s 132 and 118  
56 L32  
4 L18  
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